

1  
2 through said chamber, and as insects are metered into said  
3 delivery tube they are gravity fed to the chamber to be  
4 coated by binder solution entering the chamber through said  
5 at least one fluid injector, and then the coated insects are  
expelled through the outlet end of said chamber.

6 6. Amended. The apparatus of claim 1 wherein the  
7 delivery tube comprises a J-shaped tube the outlet of which  
8 is disposed elevationally at about the middle of the chamber  
9 and which is directed toward the outlet of the chamber.

10 10. Amended. An apparatus for the coating and  
11 delivery of beneficial insects which comprises:

12 a. a hopper for the temporary storage of the  
13 beneficial insects and which hopper has a constricted  
14 opening at the bottom in communication with,

15 b. an insect metering device for controlling the  
16 flow of a determinable amount of insects from said hopper,

17 c. a collection bin to receive said insects, in  
18 communication with said metering device,

19 d. a delivery tube having an inlet end and [an] a  
20 flared outlet end, and

21 e. a tubular chamber having an outlet end and an  
22 inlet end for the introduction of air into said chamber, and  
23 having at least one fluid injector, disposed within said  
24 chamber, for the introduction of a binder solution [from a  
25 source thereof]; into an airstream, aft the outlet of said  
delivery tube but within said chamber,

26 said collection bin in communication with the  
27 inlet of the delivery tube; the outlet of the delivery tube  
28 being disposed within the chamber and in communication with  
29 the interior of said chamber,

30 whereby when air is introduced through the inlet end of  
31 the chamber, an airstream is formed that moves through said  
32 chamber, and as insects are metered into said delivery tube  
33 they are gravity fed to the chamber to be coated by binder  
34 solution entering the chamber through said at least one

*H13*  
2 fluid injector, and then the coated insects are expelled  
through the outlet end of said chamber.

3 22. Amended. An apparatus for the aerial delivery of  
4 binder coated beneficial insects which comprises:

5 a. a hopper for the temporary storage of the  
6 insects and which hopper has a constricted opening at the  
7 bottom in communication with,

8 b. an insect metering device for [controlling the  
9 flow] periodically dispensing a finite amount of insects  
10 from said hopper,

11 c. a collection bin to receive said insects, in  
12 communication with said metering device,

13 d. a J-shaped delivery tube having an inlet end  
14 and [an] a flared outlet end,

15 e. an optical sensor encircling said delivery  
16 tube, connected to a power source, and adapted to monitor  
17 the flow though said delivery tube,

18 f. a tubular chamber having an outlet end and a  
19 reverse venturi configured inlet end for the introduction of  
20 air into said chamber, and having at least a pair of fluid  
21 ~~injectors~~  
*injectors*, oppositely disposed within said chamber, for the  
22 introduction of a binder solution [from a source thereof],  
23 into an airstream aft the outlet of said delivery tube but  
24 within said chamber,

25 said collection bin in communication with the  
26 inlet of the delivery tube; the outlet of the delivery tube  
27 being disposed within the chamber and in communication with  
28 the interior of said chamber,

29 whereby when air is introduced through the inlet  
30 end of the chamber, an airstream is formed that moves  
31 through said chamber, and as insects are metered into said  
32 delivery tube they are [gravity] fed to the chamber to be  
33 coated by binder solution entering the chamber through ~~said~~  
34 <sup>of said pair of</sup>  
*injectors*  
35 at least one fluid ~~injector~~ and then the coated insects are  
expelled through the outlet end of said chamber.

26. Amended. The process of controlling insect pests on an infested specific crop which comprises:

a. introducing a plurality of beneficial insects into a moving airstream within a chamber having an air inlet and an air outlet, parallel to the movement of the airstream,

- b. injecting a binder solution into the airstream,
- c. coating the moving beneficial insects with the binder solution, aft the entry thereof, but within said chamber.

d. expelling the coated insects from the airstream through the outlet of the chamber onto the specific crop.

27. Amended. The process of delivering beneficial insects to the foliage of infested target trees which comprises:

a. mounting at least one tubular chamber, each of which has an air inlet end and an air outlet end onto an airplane, with the air inlet of each chamber facing forward,

b. placing a finite amount of the beneficial insects into a hopper in communication with the chamber,

c. metering a determinable continuous supply of beneficial insects into the chamber from the hopper in a direction parallel to a flow of air through the chamber while flying over the target trees,

d. injecting a binder solution into the chamber during the time the beneficial insects are in the chamber,

e. coating the beneficial insects with the binder solution, within the chamber, aft the entry of the insects,

f. expelling the coated insects out the outlet of the chamber onto the target trees.

Please cancel claim 30.

**REMARKS**

Claims 1, 6, 10, 22, 26 and 27 have been amended to more clearly define the apparatus and process of this invention. Claim 30 has been canceled. The invention of